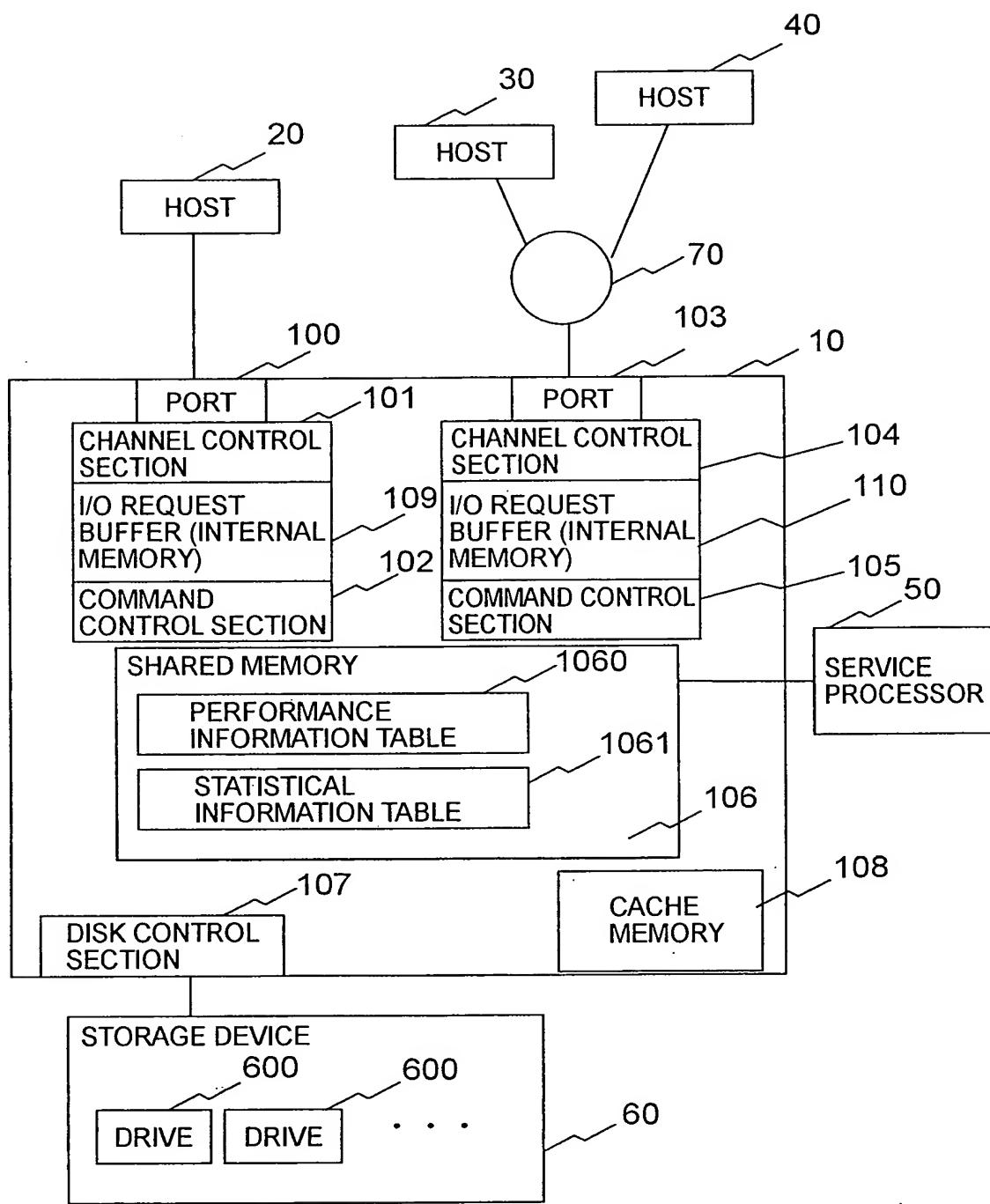


FIG. 1



Applicant: Misako TAMURA, et al.

Title: Information Processing Device and Method

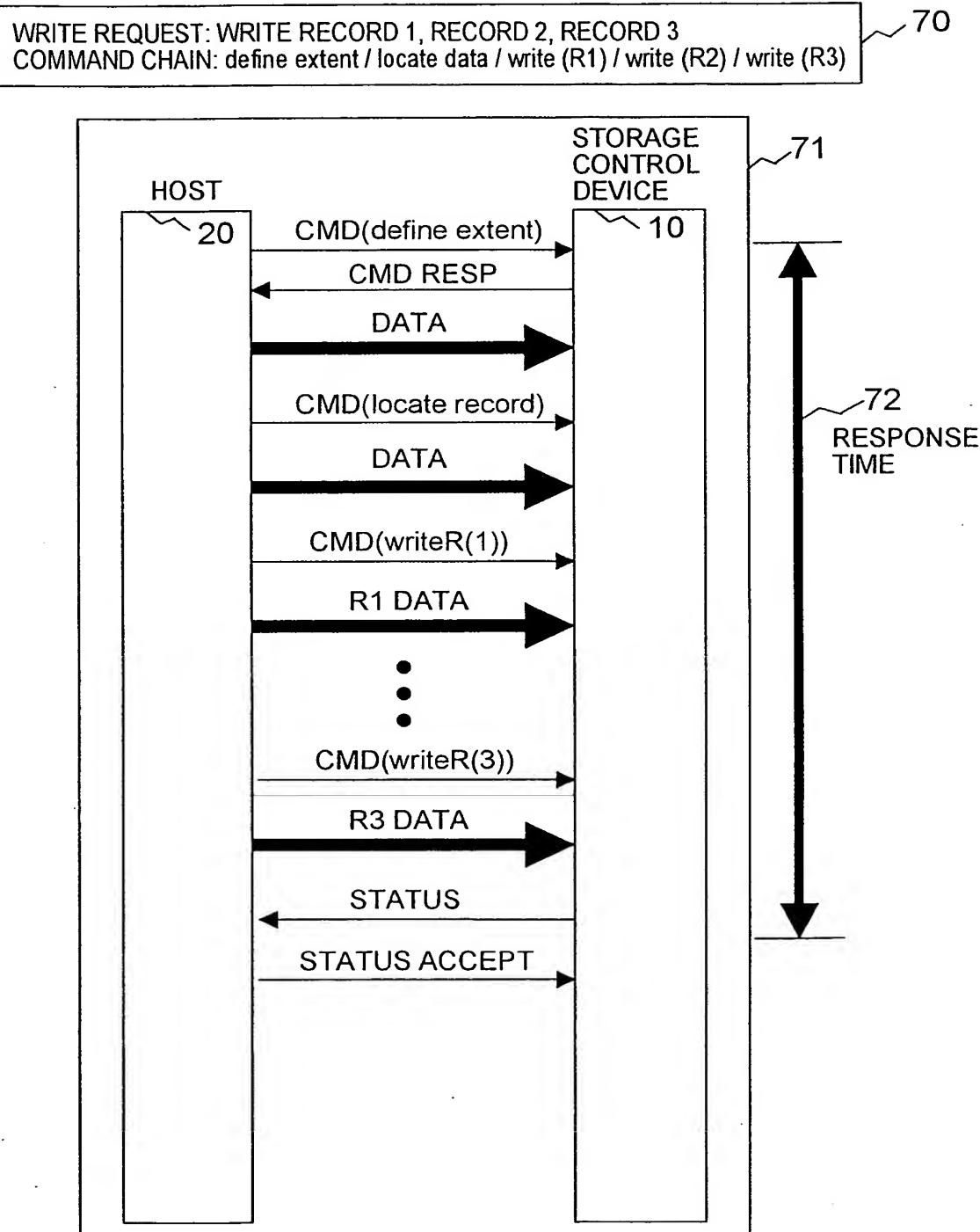
Attorney Docket No. 16869W-110400

Sheet 2 of 11

2/11

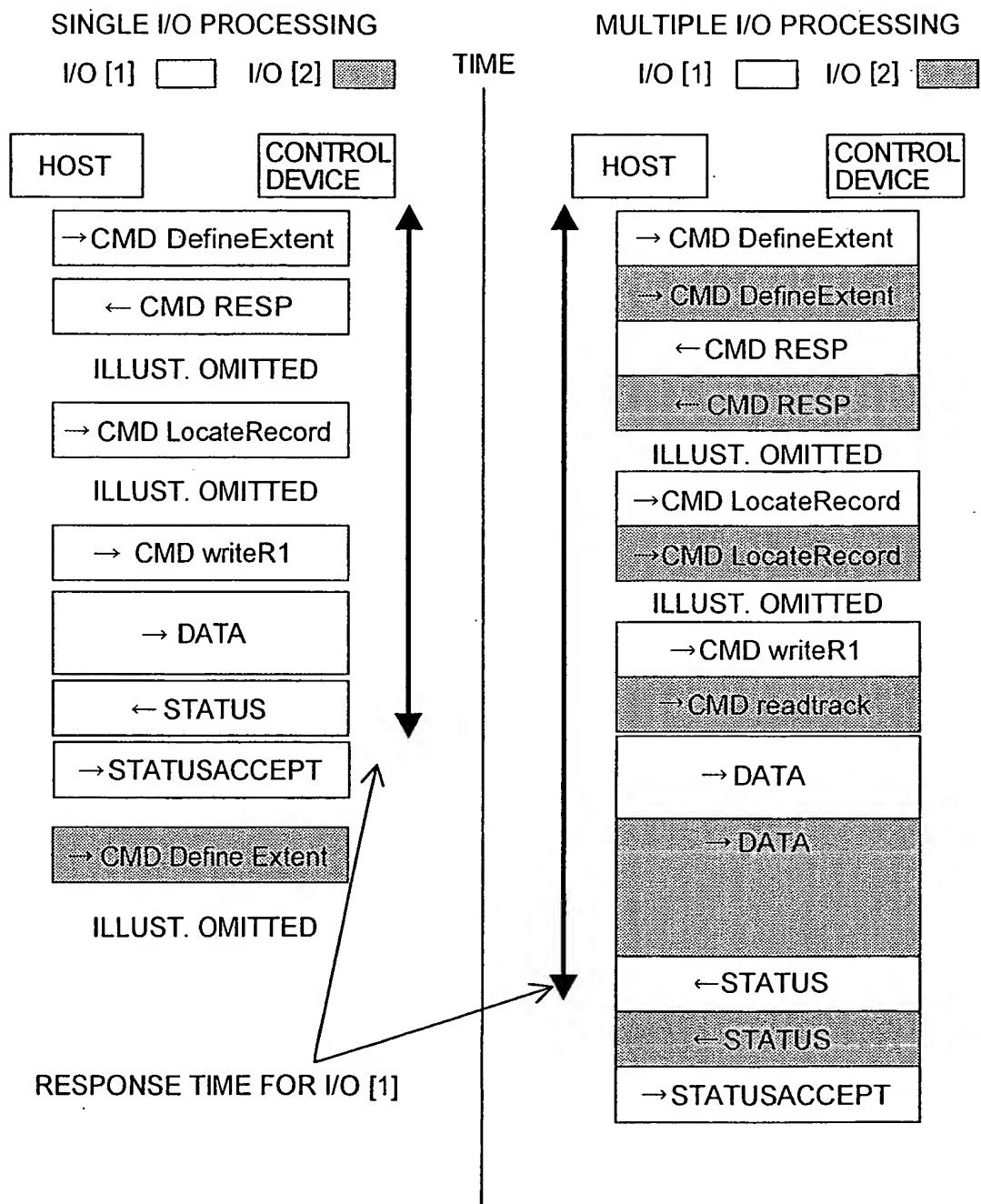
## FIG. 2

### PROCESSING SEQUENCE FOR WRITE I/O REQUEST



## FIG. 3

CONSIDERATION (1) OF RESPONSE TIME WHEN PROCESSING A PLURALITY OF I/O REQUESTS (SINGLE I/O PROCESSING AND MULTIPLE I/O PROCESSING)



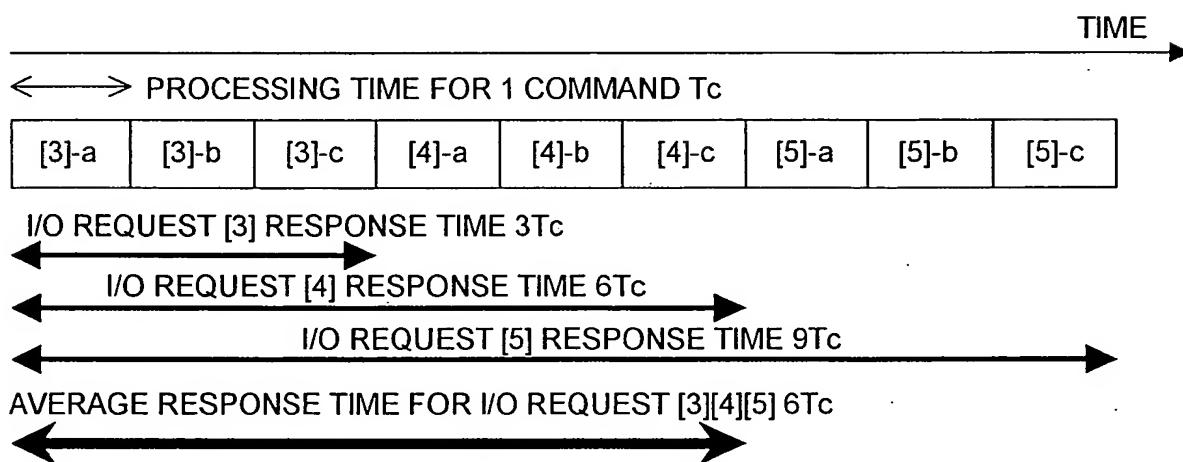
4 / 1 1

## FIG. 4

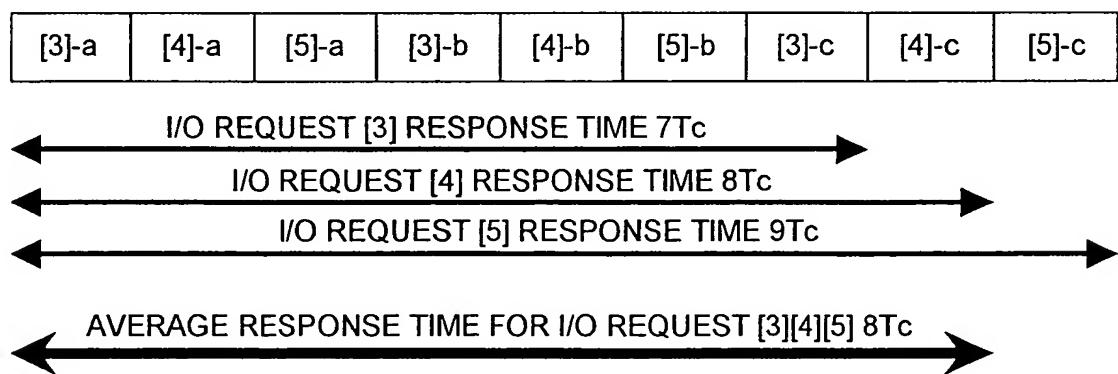
CONSIDERATION (2) OF RESPONSE TIME WHEN PROCESSING A PLURALITY OF I/O REQUESTS (SEQUENTIAL PROCESSING AND MULTIPLE PROCESSING)

I/O REQUEST [3]	COMMAND [3]-a	COMMAND [3]-b	COMMAND [3]-c
I/O REQUEST [4]	COMMAND [4]-a	COMMAND [4]-b	COMMAND [4]-c
I/O REQUEST [5]	COMMAND [5]-a	COMMAND [5]-b	COMMAND [5]-c

### CASE 3-A: SEQUENTIAL PROCESSING FOR EACH I/O REQUEST



### CASE 3-B MIXED PROCESSING OF A PLURALITY OF I/O COMMANDS



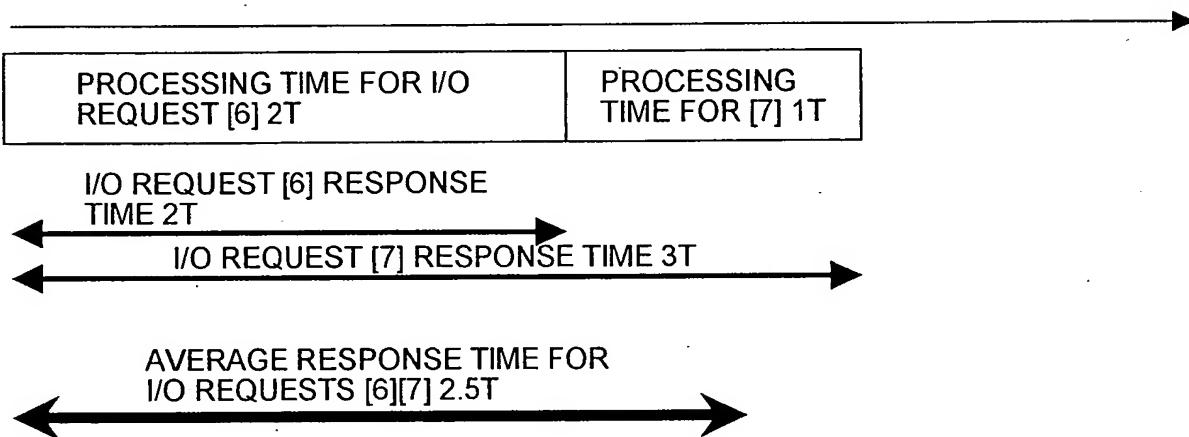
## FIG. 5

### CONSIDERATION (2) OF RESPONSE TIME FOR PLURALITY OF I/O REQUESTS (PROCESSING SEQUENCE)

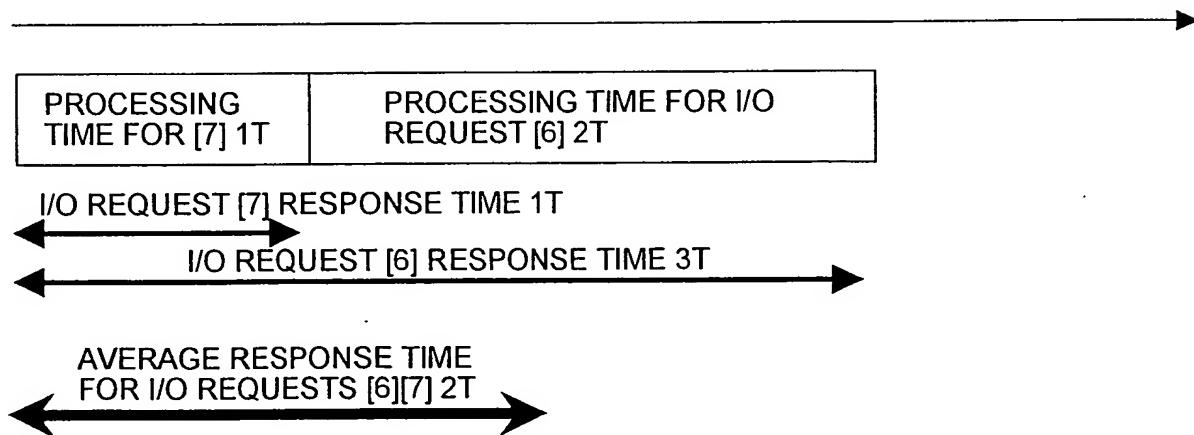
TIME TAKEN TO PROCESS I/O REQUEST [6] 2T

TIME TAKEN TO PROCESS I/O REQUEST [7] 1T

#### CASE 4-A: PROCESSED IN SEQUENCE I/O REQUEST [6][7]



#### CASE 4-B: PROCESSING IN SEQUENCE I/O REQUEST [6][7]



## FIG. 6

### TABLE SPECIFICATIONS IN SHARED MEMORY 106

1060

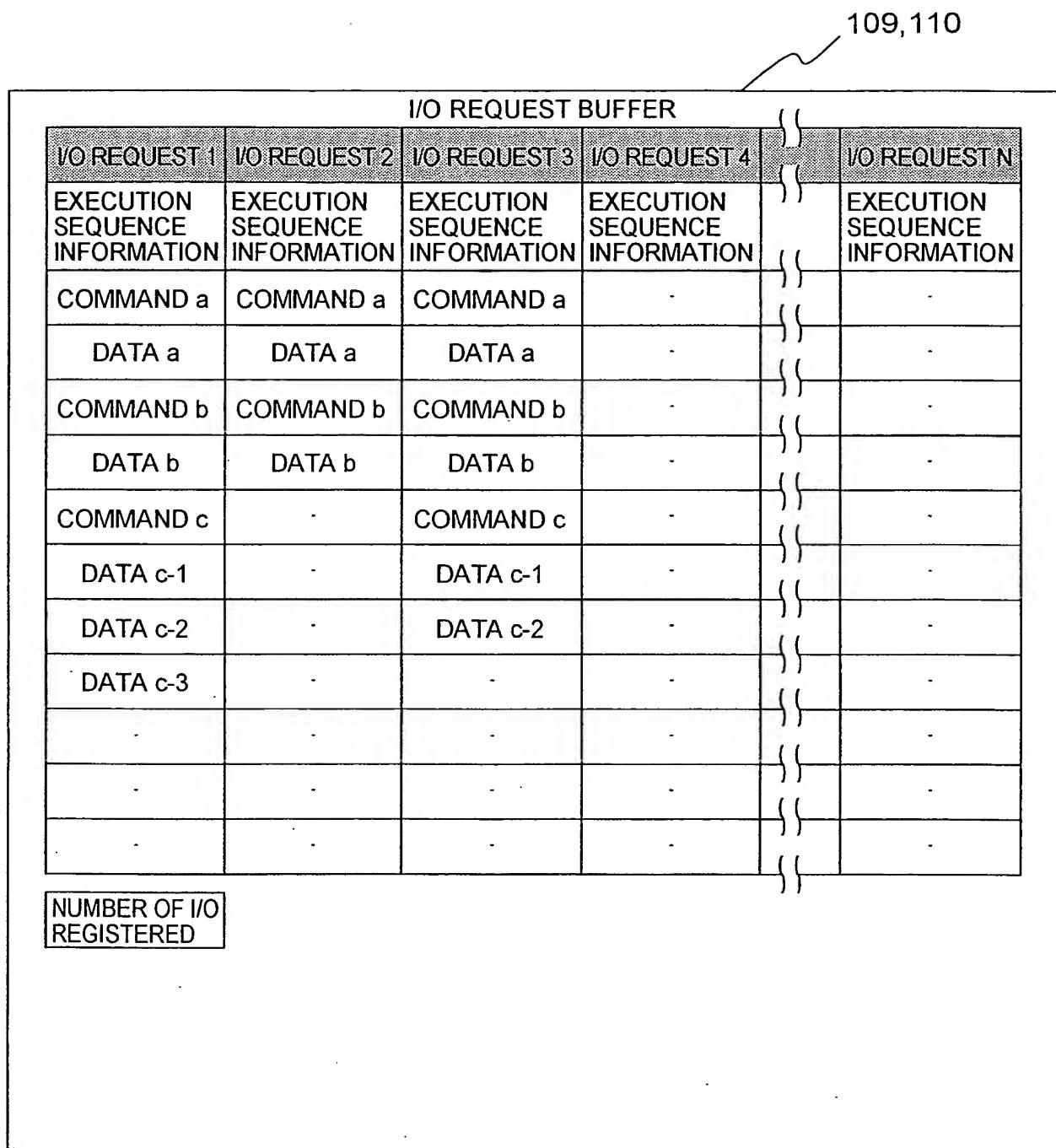
COMMAND PROCESSING TIME	
COMMAND TYPE	EXPECTED PROCESSING TIME ( $\mu$ sec)
COMMAND [1]	T1
COMMAND [2]	T2
COMMAND [3]	T3
.	.
.	.
.	.
COMMAND n	Tn

1060A

DATA TRANSFER PROCESSING TIME		
TRANSFER TYPE / TRANSFER LENGTH (byte)	EXPECTED PROCESSING TIME ( $\mu$ sec)	
READ PROCESSING	DATA LENGTH a	Ta
	DATA LENGTH b	Tb
	.	.
	.	.
	.	Tx
WRITE PROCESSING	DATA LENGTH a	Ta
	DATA LENGTH b	Tb
	.	.
	.	.
	DATA LENGTH x	Tx

1060B

FIG. 7



Applicant: Misako TAMURA, et al.

Title: Information Processing Device and Method

Attorney Docket No. 16869W-110400

Sheet 8 of 11

8/11

FIG. 8

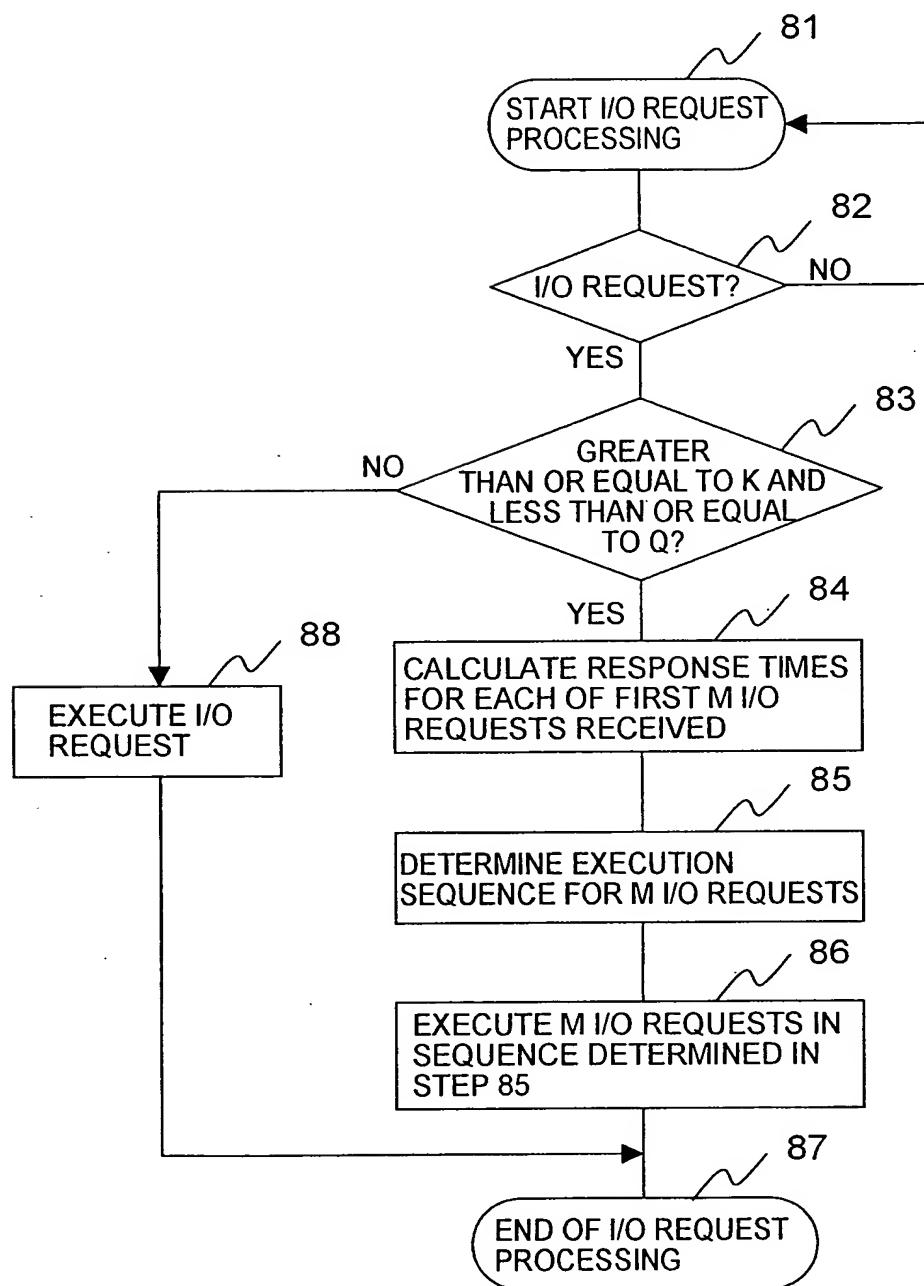
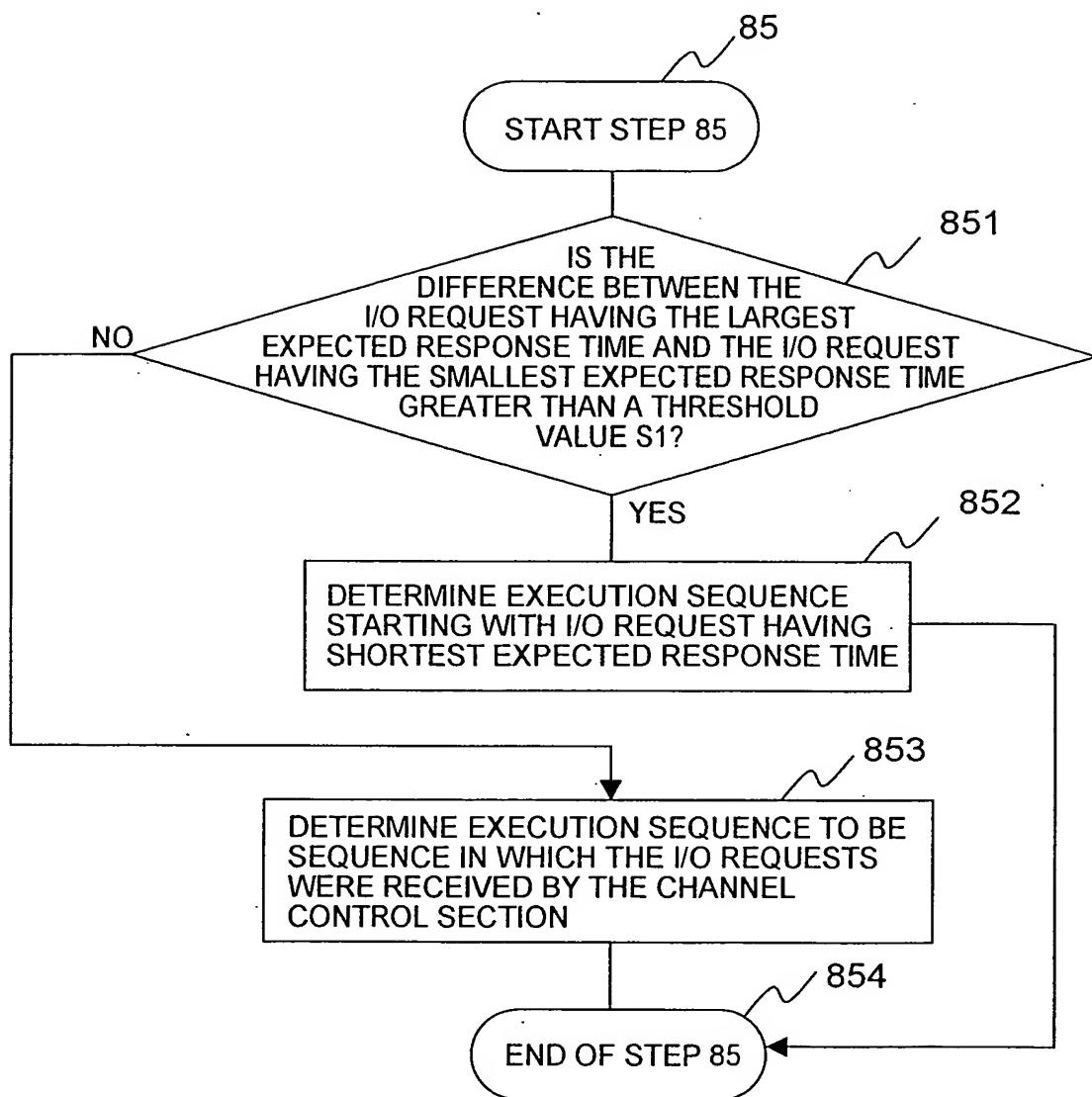


FIG. 9



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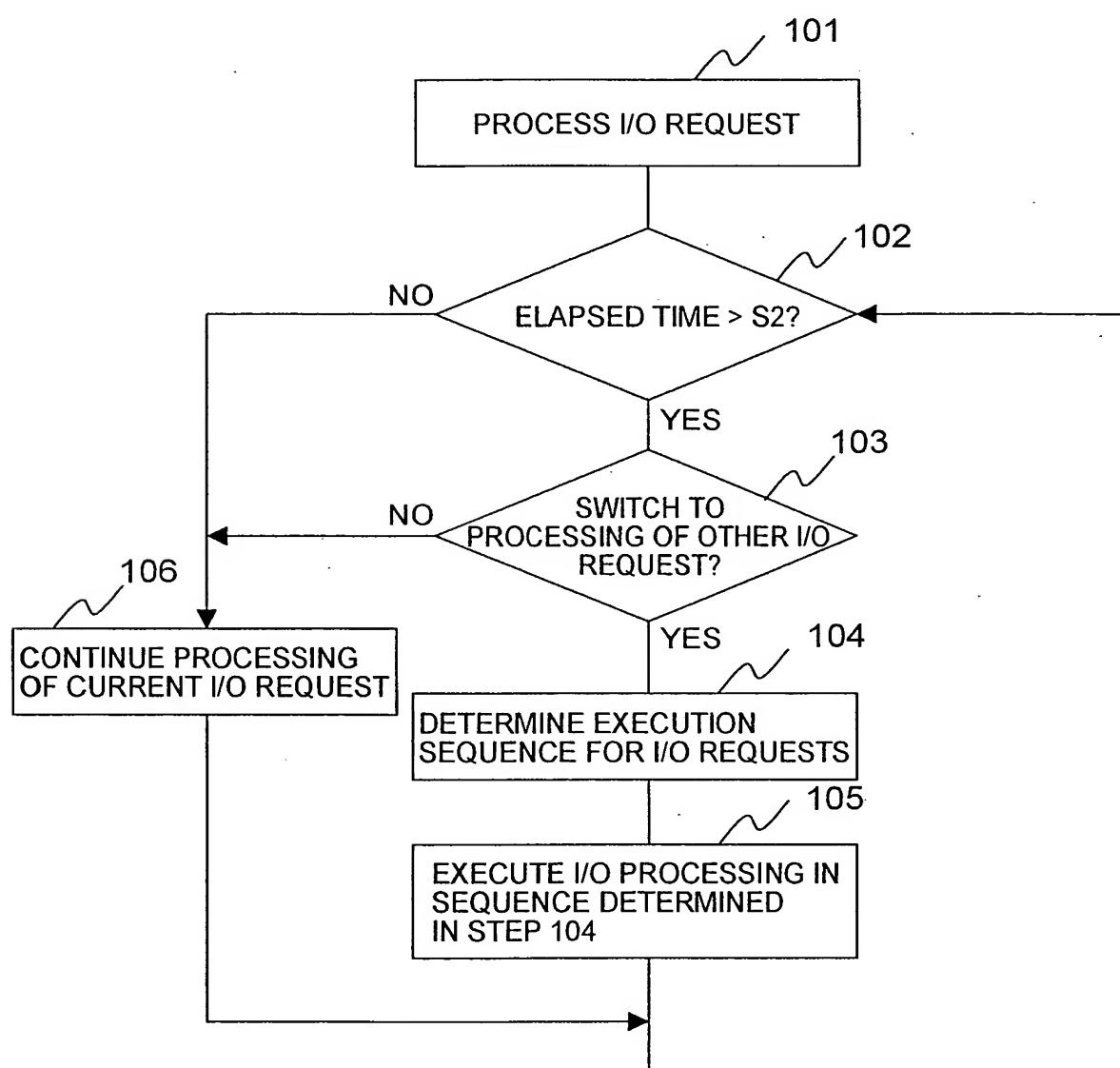
Title: Information Processing Device and Method

Attorney Docket No. 16869W-110400

Sheet 10 of 11

10/11

FIG. 10



Applicant: Misako TAMURA, et al.

Title: Information Processing Device and Method

Attorney Docket No. 16869W-110400

Sheet 11 of 11

11/11

FIG. 11

